

1982

NORTHEASTERN AREA

FOREST PEST CONDITIONS

Summary of the Status of the
Major Forest Insect and Disease Pests

for

Connecticut (CT)	Missouri (MO)
Delaware (DE)	New Hampshire (NH)
Illinois (IL)	New Jersey (NJ)
Indiana (IN)	New York (NY)
Iowa (IA)	Ohio (OH)
Maine (ME)	Pennsylvania (PA)
Maryland (MD)	Rhode Island (RI)
Massachusetts (MA)	Vermont (VT)
Michigan (MI)	West Virginia (WV)
Minnesota (MN)	Wisconsin (WI)

The information for this report was supplied by State Forestry Agencies and the USDA Forest Service (Northeastern Area, State and Private Forestry, Forest Pest Management Staff, at the Durham, NH, Morgantown, WV and St. Paul, MN Field Offices)

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STATUS OF INSECTS

<u>Insect</u>	<u>Host(s)</u>	<u>Location - Remarks</u>
Aspen blotch miner <u>Phyllonorycter tremuloidella</u> (Braun)	Aspen	MI-Defoliation occurred throughout the upper peninsula MN-750,000 acres affected in northern Minnesota.
Basswood thrips <u>Sericothrips tiliae</u> Hood	Basswood	WI-Was present in scattered areas over approximately 200,000 acres. Crowns were up to half defoliated. The area is expanding while the severity of defoliation decreases - this may continue to occur.
Beech scale <u>Cryptococcus fagisuga</u> Lindinger	Beech	WV-First detected in 1981, surveys reveal over 70,000 acres of the Monongahela National Forest are now infested.
Birch leaf miner <u>Fenusia pusilla</u> (Lepeletier)	Birches	MA-This insect in a complex with other leaf miners defoliated 40,600 acres in western portions of the state - populations are expected to remain at present levels in 1983. MI-Populations are down again for the second year. VT-This state experienced its usual widespread damage to white and gray birches.
Brown tail moth <u>Euproctis chrysorrhoea</u> (Linnaeus)	Hardwoods	MA-Approximately 1,000 acres defoliated in the Cape Cod National Seashore. ME-Populations are generally very low.
Cherry scallop shell moth, <u>Hydria prunivora</u> (Ferguson)	Black cherry, beech, maple	PA-7,500 acres of defoliation statewide - populations are expected to increase. VT-Occasional light defoliation - populations are down from 1981.

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Eastern tent caterpillar <u>Malacosoma americanum</u> (Fabricius)	Black cherry, crabapple, and other hardwoods	<p>IN-Populations have declined statewide but southcentral IN had localized heavy populations resulting in moderate to heavy defoliation. Populations will be light again in 1983.</p> <p>MO-Very heavy populations existed over the southern half of the state, about 3 million acres - they should remain high in 1983.</p> <p>RI-Moderate defoliation in Providence and Kent counties.</p> <p>VT-Population levels relatively low throughout the state.</p> <p>WV-Populations collapsed in 1982 and should remain low in 1983.</p>
European pine sawfly <u>Neodiprion sertifer</u> (Geoffroy)	Pines	<p>IN-Light damage throughout the state with scattered areas of moderate defoliation. Populations are down from 1980 and 1981, further decreases expected in 1983.</p> <p>MD-Moderate to heavy defoliation on 7,830 acres. May continue in 1983. This is the first year of infestation.</p> <p>MI-Slight damage, populations appear down from previous years.</p>
Fall cankerworm <u>Alsophila pometaria</u> (Harris)	Oaks, maples, elm	<p>MA-5,500 acres of defoliation detected in Dukes County in 1982 - expect populations to build in 1983.</p> <p>MD-This insect was part of a complex that defoliated 28,800 acres.</p> <p>ME-Approximately 4,000 acres of noticeable defoliation in the western coastal counties.</p> <p>NH-Approximately 1,000 acres were severely defoliated in southeast NH along the coast.</p> <p>RI-Moderate defoliation in Kent and Washington counties. More severe defoliation is expected in 1983.</p>
Fall webworm <u>Hyphantria cunea</u> (Drury)	Hardwoods	MO-Scattered and spotty light to moderate defoliation of over

<u>Insect</u>	<u>Host(s)</u>	<u>Location - Remarks</u>
		400,000 acres in southern portions of the state. Populations should be moderate in 1983. X
		VT-Scattered low populations reported.
		WV-Common throughout the state but no serious damage reported. ✓
Forest tent caterpillar <i>Malacosoma disstria</i> Hubner	Aspen, oak, maple, beech basswood, ash	<p>DE-An estimated 1,000 acres was defoliated in 1982 in Kent and Sussex counties - this is a decrease from 1981.</p> <p>IN-Scattered reports. Very low populations since 1979-80.</p> <p>MD-This insect in a complex with the fall cankerworm and the half-wing geometer defoliated 28,800 acres, an increase that may increase even further.</p> <p>ME-About 7.5 million acres defoliated in the eastern half of the state. After 3 years, populations are starting to collapse.</p> <p>MI-Three sections of northern hardwoods were defoliated along Lake Superior in the upper peninsula.</p> <p>MN-Populations are down from 1981. 250 thousand acres of light defoliation was detected in Carlton and St. Louis Co's.</p> <p>NY-Defoliation in Delaware and Sullivan counties totaled approximately 200,000 acres. Populations have been up since 1980 but decreased somewhat in 1982.</p> <p>VT-Defoliation totaled 325,000 acres, up from the 117,000 acres in 1981. Some decrease is expected in 1983.</p> <p>WI-Scattered pockets of defoliation totaled approximately 1 million acres. Northwestern populations decreased while northeastern populations remained high. Similar activity can be expected in 1983.</p>

<u>Insect</u>	<u>Host(s)</u>	<u>Location and Remarks</u>
Gypsy moth <i>Lymantria dispar</i> (Linnaeus)	Oaks, other hardwoods, and some conifers	The total acreage for the areas of moderate to heavy defoliation decreased this year. Areawide, 8.2 million acres were defoliated in 1982 compared to the 12.9 million acres defoliated in 1981, a 36 percent decrease.
		CT-803,802 acres were defoliated in 1982 - this represents a 46 percent decrease from 1981.
		DE-1,265 acres were defoliated this year. Population levels lower with moth activity moving southward. 350 acres were treated in 1982.
		IN-Male moth captures continue to increase - six counties infested in 1980, eight counties infested in 1981, and 21 counties infested in 1982. Spot infestations have been identified in Bartholomew, Elkhart, and Vigo counties. 500 acres were treated in Vigo county for eradication purposes in 1982.
		IA-Moths trapped at nine locations.
		ME-574,537 acres of defoliation in 1982, a decrease of 12 percent. Acres treated: 1,910
		MD-Defoliation totaled 9,162 acres. Large population increases occurred this year. Defoliation would have been considerably higher (projected at 60,000 acres) had it not been for the treatment of 48,364 acres statewide.
		MA-Populations are generally declining although an area in southcentral MA, Middlesex and Worcester counties, appears to be increasing. Acres of defoliation totaled 1,383,265 with 976,095 being moderate to heavy.
		MI-92 acres defoliated, 11 acres moderate to heavy. Seven blocks totaling 3,408 acres were treated. About the same levels are expected in 1983.

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		MN-105 moths trapped in Minneapolis/St. Paul. There are established populations near Lake Phalen in St. Paul and in the suburb of Woodbury east of St. Paul.
		X MO-No infestations detected yet. Moth catches increased from nine last year to fourteen statewide in 1982.
		NH-Defoliation totaled 878,273 acres in 1982 compared to 1,947,000 acres in 1980. Further decline is anticipated in 1983.
		NJ-675,985 acres defoliated, down from 1981 and further decline is expected in 1983. A total of 101,741 acres were treated during 1982.
		NY-Acres defoliated totaled 825,629, a reduction of about 64 percent from 1981. 10,284 acres were treated in 1982.
		PA-Defoliation in the eastern two-thirds of the state totaled 2,351,317 acres, a slight decrease from 1981 and further decline is anticipated in 1983. Approximately 500,000 acres were treated in 1982.
		RI-Acres defoliated increased from 272,556 in 1981 to 658,000 in 1982, an increase of 141 percent.
		VT-Populations collapsed in 1982-9,864 acres defoliated compared to 48,979 in 1981. Low levels are expected in 1983.
		WV-Berkeley, Jefferson, and Morgan counties are generally infested and defoliation is expected in 1983.
		WI-One new infestation has been located at Elm Grove in Waukesha County.

<u>Insect</u>	<u>Host(s)</u>	<u>Location and Remarks</u>
Introduced pine sawfly <u>Diprion similis</u> (Hartig) Freeman	White, red, Scots, and jack pines	ME-Population are down from 1981 levels. Little noticeable defoliation in 1982. MN-A 40 acre block was treated in Morrison county. X VT-Light defoliation of ornamental white pine occurred in central Vermont.
Jack pine budworm <u>Choristoneura pinus</u> Freeman	Jack pine, Red pine	MI-An estimated 624,464 acres of moderate to severe defoliation-nearly double the 1981 figure. Some areas are beginning to show signs of population reductions. 3,800 acres of young plantations were treated. MN-A total of 11,000 acres in counties are infested. Of that, about 9,000 acres have low population levels. The situation appears static. X WI-Generally light defoliation with some pockets of moderate defoliation affecting 135,000 acres in Ashland and Bayfield counties. The area of the infestation will probably remain the same while the intensity of the defoliation increases.
Large aspen tortrix <u>Choristoneura conflictana</u> (Walker)	Aspen, poplar birch	MI-Widespread defoliation in the northern half of the lower peninsula with some top-kill and die-back occurring on the poorer sites. Populations are declining. VT-Occasional light defoliation of roadside aspen. ✓
Larger elm leaf beetle <u>Monocesta coryli</u> (Say)	Elms	WV-1982 was the third year of defoliation due to high populations throughout the state. ✓
Locust leaf miner <u>Odontota dorsalis</u> (Thunberg)	Black locust	IN-Light to moderate damage in southeast Indiana with light damage to the rest of the southern portions of the state. Populations have been decreasing since 1980. PA-Moderate to heavy defoliation ✓

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		<p>of a 5 county area. This is a decrease from earlier populations and a further decline is expected.</p> <p>VT-Localized light defoliation.</p> <p>WV-Heavy damage in east central and eastern panhandle portions of the state.</p>
Loopers, a complex elm spanworm <u>Ennomos subsignarius</u> (Hubner)	Oaks, elms, hickories, maples, black cherry, basswood	<p>IN-Populations that covered 1.5 million acres throughout south-central Indiana collapsed in 1982. No defoliation is expected in 1983 although scattered oak and hickory mortality will continue, probably for several years.</p> <p>MD-Moderate to heavy defoliation over 28,800 acres - more is expected in 1983.</p>
Linden looper <u>Erannis tiliaria</u> (Harris)		<p>MI-Populations are down from 1981.</p> <p>MO-Only light to negligible defoliation over 4 million acres due to a population collapse.</p> <p>PA-The area of defoliation increased to over 10,000 acres in 1982. Further increases are expected.</p>
Fall cankerworm <u>Alsophila pometaria</u> (Harris)		<p>WV-About 100,000 acres of complete defoliation and an additional million acres of light to moderate defoliation. Populations are collapsing - white oaks hit the hardest.</p>
Half-wing geometer <u>Phigalia titea</u> (Cramer)		
Maple leafcutter <u>Paraclemensia acerifoliella</u> (Fitch)	Maples, beech and birch	<p>MI-Approximately 1,000 acres of moderate to heavy infestations.</p> <p>VT-Populations have increased considerably causing 13,671 acres of defoliation compared to 1,350 acres in 1981.</p>
Maple trumpet skeletonizer <u>Epinotia aceriella</u> (Clemens)	Red and sugar maples	<p>MI-This is the second year of high populations throughout the upper peninsula and in three northwestern counties of the lower peninsula. It is primarily a nuisance pest.</p> <p>VT-Widespread light defoliation of sugar maples.</p>

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Oak leaftier <u>Croesia semipurpurana</u> (Kearfott) and Oak leafroller <u>Archips semiferana</u> (Walker)	Oaks	<p>IN-Populations detected in 1981 have collapsed.</p> <p>ME-Apparently less defoliation than in 1981 but it is difficult to assess because of other defoliators.</p> <p>PA-About 100 acres affected in Potter county - that may increase.</p> <p>VT-Light defoliation on 550 acres.</p>
Pales Weevil <u>Hylobius pales</u> (Herbst)	Pines	<p>VT-Scattered light to moderate damage to Scots pine.</p> <p>WV-Populations seem to be increasing - very high numbers reported in several plantations.</p>
Periodical cicada <u>Magicicada septendecim</u> (Linnaeus)	Hardwoods	<p>PA-Marked increases in emergence this season with thousands of acres affected. Heavy flagging in some area. Populations are expected to decline.</p> <p>WV-Much oviposition damage in central and northern West Virginia due to very heavy emergence of brood this year.</p>
Pine spittlebug <u>Aphrophora parallela</u> (Say)	Scots, white and jack pines	<p>MI-Alger, Marquette and Schoolcraft counties in the upper peninsula report high populations. Spotty infestations are found in plantations in the northern lower peninsula also. Populations are about the same as last year and are expected to remain high and widespread.</p> <p>VT-Populations are increasing in Caledonia county - a threat to Christmas tree growers.</p> <p>WV-Heavy populations are causing damage in many scattered locations.</p>
Pine tussock moth <u>Dasychira pinicola</u> (Dyar)	Jack and red pines	MN-10,000 acres near Pine City, MN are still affected by low level populations.

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	✓	WI-Defoliation of 25,000 acres (down from 40,000 + in 1981) was generally light to moderate with a few pockets of severe damage and some topkill. Further declines are expected in 1983.
Red pine adelgid <u>Pineus boernerii</u> Annard	Red pine	CT-MA-RI - In scattered small red pine plantations. Acreages unknown. Along the southern border only in Massachusetts. ✓
Red pine scale <u>Matsucoccus resinosae</u> Bean and Godwin	Red pine	CT-NJ-NY-PA - In scattered small red pine plantations. Acreages are not large due to the limited distribution of red pine. In Pennsylvania, only a single report from Philadelphia. ✓
Red-headed pine sawfly <u>Neodiprion lecontei</u> (Fitch)	Red and jack pines	MI-Infestations were scattered over a 100 square mile area in northwestern Michigan VT-Light defoliation of red pine.
Saddled prominent <u>Heterocampa guttivitta</u> (Walker)	Maple, beech, birch, ash, and cherry	ME-Moderate to severe defoliation of 10,000 acres in southwest Maine, a decrease from the 186,000 acres reported in 1981. NY-Populations remain low. PA-Populations are increasing - about 2,000 acres were defoliated in 1982. Further increases are expected in 1983. VT-Southern populations have collapsed while low levels continue to occur in northern Vermont. ✓

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<u>Saratoga spittlebug Aphrophora saratogensis (Fitch)</u>	Red and jack pines	<p>MI-Monitored 1,000 acres of high risk pine. Populations continue to increase as more acres of alternate host are planted to pine - 153 acres of red pine were aerially treated with malathion in 1982.</p> <p>WI-Generally light populations on 1,000 acres of state land. No control needed. Scattered areas of higher activity on the Nicolet National Forest.</p>
<u>Spruce budworm Choristoneura fumiferana (Clemens)</u>	Balsam fir, spruces, and hemlock	<p>With the exception of Vermont, spruce budworm populations and associated defoliation decreased again in 1982 - similar decreases were reported in 1981.</p> <p>ME-Moderate to severe defoliation of 3.8 million acres with 823,000 acres being treated in 1982. The Bureau of Indian Affairs reports 52,293 acres of defoliation with 16,847 acres being treated.</p> <p>MI-Populations are low again for the second year with 116,930 acres of light - moderate defoliation occurring. Light infestations detected in the northern lower peninsula.</p> <p>MN-126,700 acres defoliated in 1982 - some expansion may occur in 1983.</p> <p>NH-Slightly less defoliation in 1982 with 39,000 acres reported. This is the third year of declining populations.</p> <p>NY-Populations remain low.</p> <p>VT-Acreage defoliated increased to 154,000 in 1982 compared to the 96,000 acres reported in 1981. Further increase is expected as mortality begins to occur on about 85,000 acres.</p> <p>WI-Populations decreased even further in 1982 as defoliation was barely detectable. Further declines are expected in 1983.</p>

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Sycamore lacebug <u><i>Corythucha ciliata</i></u> (Say)	Sycamore	WV-Third year of heavy damage throughout the state. ✓
White pine aphid <u><i>Cinara strobi</i></u> (Fitch)	White and red pines	IN-Scattered reports statewide - light to heavy on individual trees - populations are static. WV-Extremely heavy populations in Christmas tree plantations throughout western West Virginia.
White pine weevil <u><i>Pissodes strobi</i></u> (Peck)	White, red and ME-jack pines, spruces	Still an important pest of plantation white pine where the number of damaged leaders is sometimes quite high. MI-Increasing populations over the last 20 years are reaching levels high enough to cause serious damage in portions of the northern lower peninsula. Further increases are expected. VT-Damage is stable at moderate levels.
Zimmerman pine moth <u><i>Dioryctria zimmermani</i></u> (Grote)	Red and other pines	MI-Infestation levels range from just a few scattered tips to over 90 percent in red pine plantations in the northern half of the lower peninsula. Populations are down somewhat when compared to 1981 - about 2 million acres now affected. WI-Populations showed drastic declines in 1982. Future trends are uncertain.